

FORM PTO-1449 (modified)

To: U.S. Department of Commerce
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INFORMATION DISCLOSURE STATEMENT

BY APPLICANT

SEP 08 2003

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Date: September 8, 2003

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Attorney Docket No.

056291-5137

Client Ref.

Z70457-1P US

Applicant: Davis et al.

Appln. No.: 09/869,925

Filing Date: July 9, 2001

Examiner: Lukton, David Group Art Unit: 1653

U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
<i>DL</i>	AR	5,760,092	06/1998	Timashef et al.	514	680	
<i>DL</i>	BR	5,843,910	12/1999	Bombardelli et al.	514	33	
<i>DL</i>	CR	5,561,122	10/1996	Pettit	514	130	
<i>DL</i>	DR	6,423,753 B1	07/2002	Dougherty	514	719	

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						Enclosed	No	Enclose	No
<i>DL</i>	ER	4.685 M	01/1967	France	Roussel-Uclaf				
<i>DL</i>	FR	97/47577	12/1997	WIPO	Bombardelli				
<i>DL</i>	GR	99/02166	01/1999	WIPO	Dougherty				
<i>DL</i>	HR	00/48606 A1	08/2000	WIPO	Pero et al.				
X	IR	39-19634	09/1964	Japan	Nakamura				X
X	JR	39-19635	09/1964	Japan	Nakamura				X

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X	KR	Abu Zarga et al., "New Natural Dibenzocycloheptylamine Alkaloids": A Possible Catabolic Route for the Colchicine Alkaloids", J. Nat. Prod., (1991), 54(4), 936-940			
X	LR	Al-Tel et al., "New Natural Colchicinoids: Indications of Two Possible Catabolic Routes for the Colchicine Alkaloids", J. Nat. Prod., (1990) 53 (3), 623-629			
X	MR	Banwell et al., "Total Syntheses of the Structures Assigned to Salimine and Jerusalemine, Alkaloids from <i>Colchicum decaisnei</i> Boiss. (Liliaceae)", J. Chem. Soc., Chem. Commun., (1994) (22) 2647-2649			
X	NR	Banwell, et al., "Synthesis and Tubulin-Binding Properties of Some AC- and ABC-Ring Analogues of Allocolchicine", Aust J Chem., (1992), 45, 1967-1982			
X	OR	Battersby et al., "Biosynthesis. Part 26 ¹ . Synthetic Studies on Structural Modification of Late Biosynthetic Precursors for Colchicine", J. Chem. Soc., Perkin Trans 1, (1983), (12), 3053-3063			
X	PR	Boger et al., "Thermal Reactions of Cyclopropanone Ketals. Application of . . . Total Synthesis of Colchicine", J. Am. Chem. Soc., (1986) (108 (21), 6713-6719			
X	QR	Boyé et al. "185. Deaminocolchinchinyl Methyl Ether: Synthesis from . . . Effects of Deaminocolchinchinyl Methyl Ether and Dehydro Analogs", Helv. Chem. Acta, (1989), 72 (8), 1690-1696			

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<i>DL</i>	AR	3,442,953	05/1969	Muller et al.	568	315	
<i>DL</i>	BR	5,880,160	03/1999	Bombardelli et al.	514	628	
<i>DL</i>	CR	5,973,204	10/1999	Bombardelli	564	222	

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<i>DL</i>	DR	00/48606 A1	08/2000	WIPO	Pero et al.				
<i>DL</i>	ER	02/04434	01/2002	WIPO	Arnould et al.				
<i>DL</i>	FR	02/08213	01/2002	WIPO	Arnould				

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<i>DL</i>	GR	Boyé et al. "Potential Covalent Markers of the Colchicine-Binding-Site . . . Isothiocyanato Groups", Med.Chem. Res., (1991), 1 (2), 142-150				
<i>DL</i>	HR	Boye et al., "Natural Products. Antitubulin effect of congeners of N-acetylcolchinchyl . . . of demethoxy analogues of deaminocolchinchyl methyl ether", Can. J. Chem., (1992), 70 (5), 1237-1249				
<i>DL</i>	IR	Boyé et al., "Synthesis of ¹⁴ C Labelled Electrophilic Ligands of the Colchicine . . . 9-Deoxy-N-Acetylcolchinchol.", J. Labelled Compd Radiopharm., (1993) 33(4), 293-299				
<i>X</i>	JR	Brecht et al., "(-)-(M,7S)-Colchicine and (-)-(M,7S)-10-Ethylthiocolchicide/Alkyne . . . Consecutive [4+2] and [3+2] Cycloadditions", Eur. Jour. Org. Chem., (1998) (11) 2451-2460				
<i>X</i>	KR	Brossi et al., "S, 7S-absolute configuration of natural (-)-colchicine and . . . Allocongeners", FEBS Lett., (1990), 262 (1), 5-7				
<i>X</i>	LR	Demum et al., "Synthesis and Binding to Tubulin of an Allocolchicine Spin Probe", Acta Chem. Scand, Ser B (1981) B35 (10), 677-681				
<i>X</i>	MR	Dilger et al., "Arbeitsvorschriften und Meßwerte Procedures and Data Formaldehyd-O-oxid und Colchicine: ein eleganter Zugang zu Allocolcicinen", J. Prakt Chem./Chem-Ztg, (1998), 340 (5), 468-471 (in German)			x	x
<i>X</i>	NR	Dokl Akad Nauk USSR, (1991) (4) 33-35			x	x
<i>X</i>	OR	Dumortier et al., "Alternations of Rings B and C of Colchicine Are Cumulative in Overall Binding to Tubulin but Modify Each Kinetic Step", Biochemistry, (1996), 35 (49), 15900-15906				

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DL	AR 6,080,739	06/2000	Bombardelli	514	229.5	
	BR					
	CR					

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X	HR	Fitzgerald, "Molecular Features of Colchicine Associated with Antimitotic Activity and Inhibition of Tubulin Polymerization", Biochemistry Pharmacology, (1976), 25, 1383-1387						
X	IR	Ghera et al., "Total Synthesis of Lignan (±)-Schizandrin", J. Chem. Soc., Chem. Commun., (1978) (11), 480-481						
X	JR	Hahn et al., "Synthesis and Evaluation of 2-Diazo-3,3,3-Trifluoropropanoyl ... Photochemistry, and Tubulin Binding", Photochem. Photobiol., (1992) 55 (1), 17-27						
X	KR	Han et al., "Distances between the Paclitaxel, Colchicine, and Exchangeable GTP Binding Sites on Tubulin", Biochemistry, (1998), 37 (19), 6636-6644						
X	LR	Hastie, "Spectroscopic analyses of colchicinoid-tubulin complexes", Cellular Pharmacology, (1993), 1 (Suppl. 1), S17-S21						
X	MR	Hastie, "Spectroscopic and Kinetic Features of Allocolchicine Binding to Tubulin", Biochemistry, (1989), 28 (19), 7753-7760						
X	NR	Hrbek et al., "Circular Dichroism of Alkaloids of Colchicine Type And Their Derivatives", Collect. Czech. Chem. Commun., (1982), 47 (8), 2258-2279						
X	OR	Iorio, "Contraction of the Tropolonic Ring of Colchicine by Hydrogen Peroxide Oxidation", Heterocycles, (1984), 22 (10), 2207-2211						

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X	JR	Kiselev, "Derivatives of Aminocolchicide. VII", Zh. Zh. Obshch. Khim., (1971), 41 (2) 464-466 (in Russian, English translation attached)			
X	KR	Kita et al., "Non-phenolic oxidative coupling of phenol-ether derivatives using phenyliodine (III) bis(trifluoroacetate)", Chem. Commun. (Cambridge), (1996) (12), 1481-1482			
X	LR	Leiter et al., "Damage Induced in Sarcoma 37 with Chemical Agents. III. Colchicine Derivatives Related to Trimethylcolchicinic Acid and to Colchinol", J. Natl. Cancer Inst., (1952), 13, 379-392			
DL	MR	Mackay et al., "Structures of Colchicine Analogues. IV. An Aminodibromoallocolchicine, C ₂₀ H ₂₂ Br ₂ N ₂ O ₄ ", Acta Crystallogr, Section C: Cryst. Struct Commun, (1991) C47 (12), 2615-2618			
X	NR	Medrano, "Roles of Colchicine Rings B and C in the Binding Process to Tubulin", Biochemistry, (1989), 28 (13), 5589-5599			

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X	HR	Olszewski et al., "Potential Photoaffinity Labels for Tubulin. Synthesis and . . . Colchicine, Combretastatin, and 3,4,5-Trimethoxybiphenyl", J. Org. Chem., (1994), 59 (15) 4285-4296				
DL	IR	Ondra et al., "Colchicinoids - Ihre Toxizität Und Biologische Aktivität", Acta Univ Palacki Olomuc Fac Med, (1995) 139, 17-18				
DL	JR	Palmquist et al., "Anodic Oxidation of Phenolic Compounds. 4. Scope and Mechanism of the Anodic Intramolecular Coupling of Phenolic Diarylalkanes", J. Am. Chem. Soc., (1976), 98(9), 2571-2580				
	KR	Perez-Ramirez et al., "Cosolvent Modulation of the Tubulin-Colchicine GTPase-Activating Conformational Change: Strength of the Enzymatic Activity", Biochemistry, (1994), 33 (20), 6262-6267				
	LR	Perez-Ramirez et al., "Linkages in Tubulin-Colchicine Functions: The Role of Ring C (C') Oxygens and Ring B in the Controls", Biochemistry, (1998), 37 (6), 1646-1661				
↓	MR	Perez-Ramirez et al., "Stoichiometric and Substoichiometric Inhibition of Tubulin Self-Assembly by Colchicine Analogues", Biochemistry, (1996), 35 (10), 3277-3285				
DL	NR	Perez-Ramirez et al., "The Colchicine-Induced GTPase Activity of Tubulin: State of the Product. Activation by Microtubule-Promoting Cosolvents," Biochemistry, (1994), 33 (20), 6253-6261				

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	GR	Powell et al., "Role of Ring S-Substituents Related to Allocolchicine on Antitubulin Action", Med. Chem. Res., (1996), 164-173					
	HR	Prakash et al., "Aging of Tubulin at Neutral pH: Stabilization by Colchicine and its Analogues", Archives of Biochem & Biophysics (1992), 295 (1), 146-152					
	IR	Pyles et al., "Role of the B-Ring Substituent in the Fluorescence of Colchicinoid-Tubulin and Allocolchicinoid-Tubulin Complexes", Biochemistry, (1992), 31 (31), 7086-93					
	JR	Rossi et al., "Structural Analysis of the Substoichiometric and Stoichiometric Microtubule-Inhibiting Biphenyl Analogues of Colchicine", Biochemistry, (1996), 35 (10), 3286-3289					
	KR	Schönharting et al., "Metabolic Transformation of Colchicine I. The Oxidative Formation of Products from Colchicine in the Udenfriend System", Hoppe-Seyler's Z. Physiol. Chem., (1973), 354 (1), 421-436				x	
	LR	Shearwin et al., "Effect of Colchicine Analogues on the Dissociation of $\alpha\beta$ into Subunits: The Locus of Colchicine Binding", Biochemistry, (1994), 33 (4), 894-901					
	MR	Shi et al., "Antitumor Agents Part 184 ¹) Syntheses and Antibutulin Activity of Compounds Derived from Reaction of Thiocolchicone with Amiens: Lactams, Alcohols, and Ester Analogs of Allothiocolchicinoids", Helv Chim Acta, (1998), 81, 1023-1037					
	NR	Shi et al., "Antitumor Agents. 183. Syntheses, Conformational Analyses, and Antitubulin Activity of Allochiocolchicinoids", J. Org. Chem., (1998), 63, 4018-4025					

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	HR	Staretz et al., "Synthesis, Photochemical Decomposition, and Tubulin Binding of 10-Azido-10-demethoxycolchicine and 9-Azido-9-demethoxyisocolchicine", J. Org. Chem., (1991) 56 (1), 428-432			
	IR	Sterzl et al., "Effect of Colchicine Derivatives on the Antibody Response Induced <i>in vitro</i> ", Folia Microbiol. (Prague), (1982), 27 (4), 256-266			
	JR	Tang-Wai et al., "Structure Activity Relationships in the Colchicine Molecule with Respect to Interaction with the Mammalian Multidrug Transporter, P-Glycoprotein", Heterocycles, (1994), 39 (1) 385-403			
	KR	Timbekov et al., "Mass-Spectrometric Study of New Alkaloids from Plants of the Family Liliaceae", Khim. Prir. Soedin, (1985) (1) 3-11 (in Russian) (English translation attached)			
	LR	Tojo et al., "The Dibenzocycloheptylamine Alkaloids", J. Nat. Prod., (1989), 52 (5), 1163-1166			
↓	MR	Ward et al., "Energy Transfer Studies of the Distance between the Colchicine, Ruthenium Red, and BisANS Binding Sites on Calf Brain Tubulin", Biochemistry, (1994), 33 (39), 11900-11908			
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DK	GR	Wolff et al., "Cochicine Binding to Antibodies", J. Biol. Chem., (1980) 255 (15), 7144-7148								
DK	HR	Wosikowski et al., "Identification of Epidermal Growth Factor Receptor and c-erbB2 Pathway Inhibitors by Correlation With Gene Expression Patterns", J. Natl. Cancer Inst., (1997), 89 (20) 1505-1515								
DK	IR	Xie et al., "Synthesis of three new Schizandrin Analogues", Chin. Chem. Lett., (1998) 9 (7) 631-634								
DK	JR	Yusupov et al., "A Study of 2-Demethylallocolchicine and Its Derivatives", Khim. Prir. Soedin, (1973), (2), 194-196 (in Russian) (English translation attached)								
X	KR	Zh Obshch Khim., (1994) 64(5) 856-864 (in Russian)								
DK	LR	Zweig et al., "Inhibition of Sodium Urate-Induced Rat Hindpaw Edema by Colchicine Derivatives: Correlation with Antimitotic Activity", J. Pharmacol. Exp. Therapeutics, (1972), 182(2), 344-350								
DK	MR	Zweig et al., "Interaction of Some Colchicine Analogs, Vinblastine and Podophyllotoxin with Rat Brain Microtubule Protein", Biochemistry Pharmacology, (1973), 22, 2141-2150								
DK	PR	Hunter et al., "The photo-oxidation of some novel Colchicine derivatives", Afinidad, Vol. 38, No. 372, 1981, pp. 122-123								
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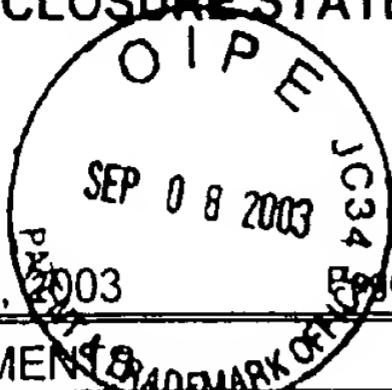
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<i>DL</i>	OR	Kang et al., "n-acetylcolchindol 0-methyl ether and thiocolchicine, potent nalog of colchicine modified in the C-ring" Journal of Biological Chemistry, Vol. 265, No. 18, June 25, 1990, pp. 10255-10259, XP002081868, ISSN: 0021-9258					
<i>X</i>	GR	Timbekov et al., "Mass Spectrometric Study of Alkaloids of the Homoaporphine, Homomorphine and Allocolchicine Series", "Tezisy Dokl. = Sov. Indiiskii Simp. Khim. Prir. Soedin., 5th (1978), p. 85 (Chemical Abstracts attached)					
<i>X</i>	PR	Mackay et al., "Structures of Colchicine Analogues. I. Allocolchicine", Acta Cryst. (1989), C45, 795-799					
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